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INTEROFFICE CORRESPONDENCE

Richmond, Virginia

To: Distribution **Date:** January 9, 1995

From: W. E. Sterling

Subject: **Equilibration OV Study**

An additional equilibration OV study on the cigarette plenums is scheduled for the week of 1/16/95. We are running this test to determine what changes occur (if any) to the equilibrated sample after being removed from the conditioning plenum and allowed to remain in the tray for extended periods in a static conditioning state until the sample is smoked. For the equilibration period examined, OV was designated as the most critical variable.

The test protocol for the new trials are as follows:

- 2 Brands
  Marlboro KS (0290) ordered from MC
  OV Monitor (uncased, unfiltered, single grade Bright)

- 3 Locations
  Sample Prep Plenum (either Domestic or International)
  Sample Prep Static (trays stacked on table)
  Control (sealed plastic container)

- 8 Equilibration times

0 hr-- (as is from packs or cans)	72 hr--
24 hr--	96 hr--
48 hr--	168 hr--
60 hr--	192 hr--

- 5 Replicates per OV determination

Brands were limited in this study to obtain a reasonable test size. Five replicates were requested to determine OV differences of 0.1%.

One oven will be used for the entire test (this oven will **not** be overhauled until the test is completed). One technician will be assigned to handle the entire test.

Marlboro KS cigarettes have been received from the MC. On **Monday, January 16**, the designated technician will open ten cartons of Marlboro. Seventeen plenum trays will be randomly loaded with 100 cigarettes each. Bar codes will be available to label the trays:

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MarlSPP24	MarlSPP192	MarlCNTL60
MarlSPP48	MarlSPS60	MarlCNTL72
MarlSPP60	MarlSPS72	MarlCNTL96
MarlSPP72	MarlSPS96	MarlCNTL168
MarlSPP96	MarlSPS168	MarlCNTL192
MarlSPP168	MarlSPS192	

where SPP = Sample Prep Plenum, SPS = Sample Prep Static, and CNTL = Control, (i.e., sealed plastic container). These trays will be loaded into adjacent cubicles near the center of the plenum..

Two hundred (200) of the remaining cigarettes will be jarred and ripped for ten OV determinations. This is the Marlboro zero time value.

Also on Monday, twenty-four (24) cans of OV monitor will be opened. Seventeen plenum trays will be randomly loaded with 100 cigarettes each. Bar codes will be available to label these trays:

MonSPP24	MonSPP192	MonCNTL60
MonSPP48	MonSPS60	MonCNTL72
MonSPP60	MonSPS72	MonCNTL96
MonSPP72	MonSPS96	MonCNTL168
MonSPP96	MonSPS168	MonCNTL192
MonSPP168	MonSPS192	

The Monitor trays must be side by side with the Marlboro trays in the plenum as well as on the table for the static portion of the test.

Two hundred (200) of the remaining cigarettes will be jarred and ripped for ten OV determinations. This is the Monitor zero time value.

Samples will be removed from the plenums and tested by the following schedule:

Equilibration Time	Day/Date
24-hrs	Tues., January 17th
48-hrs	Weds., January 18th
60-hrs	Weds., January 18th "B-shift"
72-hrs	Thurs., January 19th
96-hrs	Fri., January 20th
168-hrs	Mon., January 23rd
192-hrs	Tues., January 24th

Samples for the static test and control test will be removed from the conditioning plenum on Wednesday January 18th, at the end of the 48-hr equilibration. Static sample trays will be stacked on the work table near the center of the room to receive additional conditioning. Control samples will be placed in sealed plastic containers to opened for subsequent testing.

In order to minimize variation among replicates, samples will be prepared as follows:

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1. Rip 100 cigarettes and collect the tobacco in a plastic bag.
2. Shake or agitate the bag to mix the tobacco.
3. Prepare five replicates from the bag of tobacco.
4. Once the cigarettes have been ripped, work must continue until all five replicates are prepared.

Please call Ed Sterling at ext. 5796 if you have any questions.

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